## IN THE CLAIMS

- 1. (Amended) A compound of formula E- $C_a$ -R- $C_b$ -A, wherein E is a therapeutic or diagnostic agent, R is a reactive group,  $C_b$  and  $C_a$  are optional first and second connecting respectively, and A is an affinity group comprising any molecule or part of a molecule possessing specific binding determinants for a target molecule having an affinity for human serum albumin, wherein affinity group A comprises a sequence of amino acid residues  $-O_1$ - $O_2$ - $X_1$ - $X_2$ -B in which the amino acid residues are independently selected from the group of all twenty naturally occurring amino acids.
- 2. (Amended) A compound according to claim 58, wherein amino acid residue  $O_1$  is selected from the group consisting of phenylalanine, arginine, glutamine, tyrosine, glutamic acid and tryptophan; amino acid residue  $O_2$  is selected from the group consisting of leucine, arginine, glutamic acid, tryptophan and phenylalanine; amino acid residue  $X_1$  is selected from the group consisting of phenylalanine, tryptophan, methionine and tyrosine; amino acid residue  $X_2$  is selected from the group consisting of serine, arginine and glutamic acid; and amino acid residue B is selected from the group consisting of serine, arginine and glutamic acid.

## Please CANCEL Claim 3.

- 4. (Amended) A compound according to claim 58, wherein one of the five amino acid residues is an L amino acid residue and the other four amino acid residues are D amino acid residues.
- 5. (Amended) A compound according to claim 2, wherein the L-amino acid residue is selected from the group consisting of the amino acid residue  $O_2$ , the amino acid residue  $X_1$ , and the amino acid residue  $X_2$ .
- 6. (Amended) A compound according to claim 58, wherein one of the five amino acid residues is a D-amino acid residue and the other four amino acid residues are L-amino acid residues.





- 7. (Reiterated) A compound according to claim 6, wherein the D-amino acid residue is selected from the group consisting of the amino acid residue  $O_2$ , amino acid residue  $X_1$ , and amino acid residue  $X_2$ .
- 8. (Reiterated) A compound according to claim 7, wherein the D-amino acid residue is the amino acid residue O<sub>2</sub>.
- 9. (Amended) A compound according to claim 58, wherein  $O_1$  is phenylalanine and  $O_2$  is leucine.
- 10. (Amended) A compound according to claim 58, wherein O<sub>1</sub> is arginine and O<sub>2</sub> is arginine.
- 11. (Amended) A compound according to claim 58, wherein O<sub>1</sub> is glutamine and O<sub>2</sub> is glutamic acid.
- 12. (Amended) A compound according to claim 58, wherein  $O_1$  is glutamic acid and  $O_2$  is tryptophan.
- 13. (Amended) A compound according to claim 58, wherein  $O_1$  is tryptophan and  $O_2$  is tryptophan.
- 14. (Amended) A compound according to claim 58, wherein O<sub>1</sub> is tryptophan and O<sub>2</sub> is glutamic acid.
- 15. (Amended) A compound according to claim 58, wherein  $X_1$  is tyrosine.
- 16. (Amended) A compound according to claim 58, wherein  $X_2$  is glutamic acid.
- 17. (Amended) A compound according to claim 58, wherein B is glutamic acid.

- 18. (Amended) A compound according to claim 58, wherein  $O_1$  is phenylalanine,  $O_2$  is D-leucine,  $X_1$  is tyrosine,  $X_2$  is glutamic acid, and B is glutamic acid.
- 19. (Amended) A compound according to claim 58, wherein the amino acid residue B is a C-terminal amino acid residue.
- 20. (Reiterated) A compound according to claim 19, wherein the affinity group comprises the amino acid sequence  $-O_1-O_2-X_1-X_2-B-NH_2$ .
- 21. (Amended) A compound according to claim 58, wherein the the reactive group comprises a functional group selected from the group consisting of carboxy, phosphoryl, alkyl esters, thioesters, phosphoesters, ortho esters, imidates, mixed anhydrides, amides, thioamine and disulphides.
- 22. (Amended) A compound according to claim 21, wherein  $C_b$  is absent and the reactive group is bonded directly to the  $O_1$  amino acid residue in the affinity group.
- 23. (Reiterated) A compound according to claim 22, wherein the reactive group is bonded to the O<sub>1</sub> amino acid residue by an amide linkage.
- 24. (Amended) A compound according to claim 21, wherein the reactive group has the formula  $-X-R_1-C(O)$ -, wherein  $R_1$  comprises a substituted or unsubstituted aromatic group and X is selected from the group consisting of S, O and N.
- 25. (Reiterated) A compound according to claim 24, wherein X is bonded directly to an aromatic carbon atom in R<sub>1</sub>.
- 26. (Reiterated) A compound according to claim 24, wherein R<sub>1</sub> is unsubstituted phenyl.
- 27. (Amended) A compound according to claim 26, wherein -X- and -C(O)- are bonded to the phenyl in a para configuration.

- 28. (Amended) A compound according to claim 24, wherein R₁ is phenyl substituted with one or more groups selected from the group consisting of a halogen, NO₂, SO₂NH₂, SO₂NHF, CF₃, CCl₃, CBr₃, C≡N, SO₃H, CO₂H, CHO, OH, NHCOCH₃, OCH₃, CH₃and CH₂CH₃.
- 29. (Reiterated) A compound according to claim 24, wherein the reactive moiety is bonded directly to the O<sub>1</sub> residue via the carboxyl carbon.
- 30. (Amended) A compound according to claim 21 wherein C<sub>b</sub> is present.
- 31. (Amended) A compound according to claim 28, wherein C<sub>b</sub> is bonded to the reactive group via an ester, thioester, amide, sulfonate ester or sulfonamide linkage.
- 32. (Amended) A compound according to claim 30, wherein C<sub>b</sub> is bonded to the O<sub>1</sub> amino acid residue in the affinity group via an ester, thioester, amide, sulfonamide, urea, thiourea or carbamate linkage.
- 33. (Amended) A compound according to claim 30, wherein C<sub>b</sub> comprises a backbone chain of between about 1 and about 25 atoms.
- 34. (Amended) A compound according to claim 33, wherein C<sub>b</sub> comprises a backbone chain of between about 2 and about 16 carbon atoms.
- 35. (Amended) A compound according to claim 30, wherein C<sub>b</sub> comprises an unsaturated carbon atom backbone chain of between about 1 and about 25 atoms.

Please CANCEL Claims 36-39.

40. (Amended) A compound according to claim 58 wherein  $C_a$  is present.

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- 41. (Amended) A compound according to claim 40, wherein C<sub>a</sub> is bonded to E by an ester, thioester, amide, sulfonate ester or sulfonamide linkage.
- 42. (Amended) A compound according to claim 40, wherein C<sub>a</sub> is bonded to the reactive group by an ester, thioester, amide or sulfonate ester linkage.
- 43. (Amended) A compound according to claim 40, wherein C<sub>a</sub> comprises a backbone chain of between about 1 and about 25 atoms.
- 44. (Amended) A compound according to claim 43, wherein C<sub>a</sub> comprises a backbone chain of between about 2 and about 16 carbon atoms.
- 45. (Amended) A compound according to claim 40, wherein C<sub>a</sub> comprises an unsaturated carbon atom backbone chain of between about 1 and about 25 atoms.
- 46. (Amended) A compound according to claim 1, wherein the diagnostic agent comprises biotin.
- 47. (Amended) A compound according to claim 46, wherein biotin is bonded directly to the reactive group by an ester, thioester or amide linkage.
- 48. (Amended) A compound according to claim 46, wherein the reactive group has the formula –X-Ph-C(O)-, and wherein X is oxygen, sulfur or nitrogen.
- 49. (Amended) A compound according to claim 48, wherein the -X- and -C(O)- on the phenyl group are bonded in a para configuration.
- 50. (Amended) A compound according to claim 47 wherein C<sub>a</sub> is present.
- 51. (Amended) A compound according to claim 50, wherein C<sub>a</sub> is bonded to the biotin group by an amide linkage.